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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,796	05/28/2004	Michael A. Slivka	101896-251 (DEP5318)	3795
21125 7590 03/17/2010 NUTTER MCCLENNEN & FISH LLP			EXAMINER	
SEAPORT WE		HOFFMAN, MARY C		
155 SEAPORT BOULEVARD BOSTON, MA 02210-2604			ART UNIT	PAPER NUMBER
			3733	
			NOTIFICATION DATE	DELIVERY MODE
			03/17/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@nutter.com

	Application No.	Applicant(s)				
Office Action Commence	10/709,796	SLIVKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	MARY HOFFMAN	3733				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 11/03	2/2009					
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-5,7-21,23,25 and 27-35</u> is/are pending in the application.						
4a) Of the above claim(s) <u>13,14,19,20 and 32</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7-12,15-18,21,23,25,27-31,33-35</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>07 February 2008</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 7-9, 12, 15, 18, 21, 23, 25, and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young (U.S. Patent No. 6,626,906) in view of Lin (U.S. Patent No. 5,613,968). Also, see evidentiary reference to Shih et al. (U.S. Patent No. 6,136,002),

Young discloses a device (FIG. 6) for treating spinal deformities comprising a spinal anchoring element (9) adapted to seat a first spinal fixation element in a concave recess, the spinal anchoring element having a bore (14) extending therethrough; a fastening element (8) adapted to extend distally through the bore to mate the spinal anchoring element to bone; and a closure mechanism (10) adapted to mate to the spinal anchoring element to lock each of the first and second spinal fixation elements in a fixed position relative to the spinal anchoring element, the closure mechanism having a tapered bore (15) extending therethrough that axially aligns with the bore in the spinal anchoring, element when the closure mechanism is mated to the spinal anchoring element, and a set screw (16) having a head that is received within the tapered bore in the closure mechanism, and a threaded shaft adapted to threadably engage threads in

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the bore in the spinal anchoring element to mate the closure mechanism to the spinal anchoring element. The fastening element comprises a bone screw.

Young discloses the claimed invention except for a second spinal fixation element at a distance spaced apart from the first spinal fixation element, the spinal fixation elements in recesses in the spinal anchoring element; and the closure mechanism being removable (*i.e.* Young discloses an integral closure mechanism/spinal anchoring element instead of two separate pieces).

Lin discloses an embodiment with only a first spinal fixation element (FIG. 2) as well as embodiment that is modified to have a second spinal fixation element at a distance spaced apart from the first spinal fixation element (FIG. 4), when a plurality of spinal fixation elements/spinal rods are desired.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Young having a second spinal fixation element at a distance spaced apart from the first spinal fixation element in view of Lin to provide a plurality of spinal fixation elements when more spinal fixation elements are desired, and since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Young with the closure mechanism being removable from the spinal anchoring element (*i.e.* the closure mechanism being non-integral with the spinal anchoring element), since it has been held that constructing a

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formerly integral structure in various elements involves only routine skill in the art. *Nerwin v. Erlichman*, 168 USPQ 177, 179. In this case, having a separate closure mechanism could provide benefits, such as making removal of the rod ref. #2 easier during surgical revision, and also making it easier to replace closure mechanism ref. #6 if the closure mechanism was accidentally damaged during insertion of the rod without having to replace the entire piece (closure mechanism and spinal anchoring element). Also, see evidentiary reference to Shih et al. (U.S. Patent No. 6,136,002), which shows that clamps meant for holding rods can be constructed as two separate pieces, closure mechanism (ref. #14) and spinal anchoring element (ref. #12).

Young in view of Lin discloses a central portion positioned between the first and second recesses and adapted to receive the fastening element for mating the anchoring element to bone. The central portion includes the bore extending therethrough. The closure mechanism includes a central portion adapted to receive the set screw for mating the closure mechanism to the spinal anchoring element. The first recess is formed in a first end portion of the spinal anchoring element and the second recess is formed in a second, opposed end portion of the spinal anchoring element. Each portion includes a superior surface and an inferior surface, the first and second recesses being formed in the superior surface. The closure mechanism includes a first end portion and a second end portion

Claims 10-11 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young (U.S. Patent No. 6,626,906) in view of Lin (U.S. Patent No. 5,613,968) further in view of Shih et al. (US 6,136,002).

Young in view of Lin discloses the claimed invention except for bone engaging members (spikes) extending distally from the inferior surface of each of the first and second end portions.

Shih et al. disclose bone engaging members (spikes) extending distally from the inferior surface of each of the first and second end portions for gripping bone.

It would have been obvious at the time the invention was made to construct the fixation elements of Young in view of Lin discloses with bone engaging members (spikes) extending distally from the inferior surface of each of the first and second end portions in view of Shih et al. to grip bone.

Claims 16-17 and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young (U.S. Patent No. 6,626,906) in view of Lin (U.S. Patent No. 5,613,968) further in view of Paul et al. (US 2004/0236327).

Young in view of Lin discloses the claimed invention except for each spinal fixation element being flexible and being formed from a bioabsorbable material.

Paul et al. disclose spinal fixation element being flexible and being formed from a bioabsorbable material (paragraph [0097]) to provide an improved spinal fixation element.

It would have been obvious at the time the invention was made to construct the fixation elements of Young in view of Lin being flexible and bioabsorbable in view of Paul et al. to provide a spinal improved fixation element.

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Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARY HOFFMAN whose telephone number is (571)272-5566. The examiner can normally be reached on Monday-Thursday 10:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo C. Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Examiner, Art Unit 3733 /Eduardo C. Robert/ Supervisory Patent Examiner, Art Unit 3733